

DOCUMENT-IDENTIFIER: US 20030133699 A1

TITLE: DIGITAL VIDEO RECORDING SYSTEM AND ITS RECORDING MEDIUM

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Application Filing Date - APD (1):

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Detail Description Paragraph - DETX (52):

[0116] As shown by (a) in FIG. 6, this VTSI (STR_VMGI) includes a VTSI management table (VTSI_MAT) that describes management information pertaining to the VTSI (STR_VMGI); a VTS search pointer table (VTS_TT_SRPT) that describes search pointers used to search for a VTS (video title set) or a play list search pointer table (PL_SRPT) that describes search pointers used to search for a play list in a stream; a VTS program chain information table (VTS_PGCIT) that specifies the cell playback order or a user-defined program chain information table (UD_PGCIT); a VTS menu program chain information unit table (VTSM_PGCI_UT); a VTS time map table (VTS_TMAPT); a VTS menu cell address table (VTSM_C_ADT); a VTS menu VOB address map table (VTSM_VOBU_ADMAP); a VTS cell address table (VTS_C_ADT); and a VTS VOB address map table (VTS_VOBU_ADMAP) in this order.

Detail Description Paragraph - DETX (53):

[0117] User-defined PGC information (UD_PGCI) in the UD_PGCIT is a sequence of parts of a program. The play list may be used by a user to freely define the playback sequence of the parts of programs.

Detail Description Paragraph - DETX (173):

[0237] When the user determines the title set (PGCS) to be played back and its address is determined in step S36, MPU 80 sends a read command of the determined address to disc drive 51. Hence, VTSI (or STR_VMGI) of the determined title set (PGCS) is loaded and PGCI (or play list search pointers) in the loaded VTSI (or STR_VMGI) is saved in work RAM 80A in step S37.

Detail Description Paragraph - DETX (177):

[0241] Upon completion of setups based on the support information, program and cell numbers from which playback starts are determined in step S46. MPU 80 sends a playback command of TS packets to STB 83 via an internal bus. MPU 80 also initially sets up distributor 60 to send TS packets to STB 83, and sets V mixing unit 66 to allow a display process of a video signal sent from STB 83 (step S47 in FIG. 18).

Detail Description Paragraph - DETX (185):

[0249] If the last cell has been reached in step S51, it is checked in step S53 if playback is to end. If playback is not to end, the flow returns to step S48 to start playback of a cell of another program (or another play list) or PGC.

Detail Description Paragraph - DETX (287):

[0350] Streamer Video Manager Information STR_VMGI of FIG. 28 is formed of Video Manager Information Management Table (VMGI_MAT) and Play List Search Pointer Table (PL_SRPT).

86	11	(play near3 list or playlist or play near3 plan) and determin\$4 near3 (number or count) near3 playback	USPAT; US-PGPUB; DERWENT	2004/05/11 17:00
87	1	((play near3 list or playlist or play near3 plan) and determin\$4 near3 (number or count) near3 playback) and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 17:00

L Number	Hits	Search Text	DB	Time stamp
66	2	temporary near3 memory and permanent\$4 near3 storage and (record\$4 near3 broadcast).ab. and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:29
67	1	temporary near3 memory and permanent\$4 near3 storage and (record\$4 near3 broadcast).ti. and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:30
68	0	verify\$5 near3 available near3 memory and temporary near3 storage and (record\$4 near3 broadcast).ti. and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:31
69	0	available near3 memory and temporary near3 storage and (record\$4 near3 broadcast).ti. and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:31
70	17	available near3 memory and temporary near3 storage and (record\$4 near3 broadcast) and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 16:04
71	0	6311011.pn. and (available near3 memory and temporary near3 storage and (record\$4 near3 broadcast) and (@ad<=20000401)) and permanent\$4 near3 storage	USPAT; US-PGPUB; DERWENT	2004/05/11 15:33
72	0	6311011.pn. and (available near3 memory and temporary near3 storage and (record\$4 near3 broadcast) and (@ad<=20000401)) and long near3 term near3 storage	USPAT; US-PGPUB; DERWENT	2004/05/11 15:33
73	0	6311011.pn. and (available near3 memory and temporary near3 storage and (record\$4 near3 broadcast) and (@ad<=20000401)) and long near3 term near3 memory	USPAT; US-PGPUB; DERWENT	2004/05/11 15:33
74	0	6311011.pn. and delet\$5 near3 (previous\$5 or old or unwanted or undesired)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:36
75	1	6311011.pn. and (eras\$5 or remov\$5 or delet\$4)	USPAT; US-PGPUB; DERWENT	2004/05/11 15:37
76	4671	(VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)	USPAT; US-PGPUB; DERWENT	2004/05/11 16:05
77	84	((VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)) and stor\$5 near3 (advertis\$10 or promot\$5)	USPAT; US-PGPUB; DERWENT	2004/05/11 16:06
78	0	((VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)) and stor\$5 near3 (advertis\$10 or promot\$5)) and (play near3 list or play near3 list or play near3 plan) near3 (command or control\$5 near3 (code or word))	USPAT; US-PGPUB; DERWENT	2004/05/11 16:08
79	0	((VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)) and stor\$5 near3 (advertis\$10 or promot\$5)) and (play near3 list or playlist or play near3 plan) near3 (command or control\$5 near3 (code or word))	USPAT; US-PGPUB; DERWENT	2004/05/11 16:09
80	2	((VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)) and stor\$5 near3 (advertis\$10 or promot\$5)) and (play near3 list or playlist or play near3 plan) near3 (play\$3 near3 back or playback) and (command or control\$5 near3 (code or word))	USPAT; US-PGPUB; DERWENT	2004/05/11 16:59
81	0	20030182184.pn. and (count\$5 or number) near3 (advertis\$5 or spot\$1)	USPAT; US-PGPUB; DERWENT	2004/05/11 16:56
82	0	20030182184.pn. and playlist and how near3 manay near3 (advertis\$5 or spot\$1)	USPAT; US-PGPUB; DERWENT	2004/05/11 16:56
83	0	20030182184.pn. and playlist and how near3 manay	USPAT; US-PGPUB; DERWENT	2004/05/11 16:57
84	1	20030182184.pn. and playlist	USPAT; US-PGPUB; DERWENT	2004/05/11 16:57
85	0	((VCR or DVD) and (play\$3 near3 back or playback) and (@ad<=20000401)) and stor\$5 near3 (advertis\$10 or promot\$5)) and (play near3 list or playlist or play near3 plan) and determin\$4 near3 (number or count) near3 playback	USPAT; US-PGPUB; DERWENT	2004/05/11 17:00